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1 [PPFS: a high performance portable parallel file system](#) 98%

James V. Huber , Andrew A. Chien , Christopher L. Elford , David S. Blumenthal , Daniel A. Reed

Proceedings of the 9th international conference on Supercomputing July 1995

2 [HFS: a performance-oriented flexible file system based on building-block compositions](#) 95%

Orran Krieger , Michael Stumm

ACM Transactions on Computer Systems (TOCS) August 1997

Volume 15 Issue 3

The Hurricane File System (HFS) is designed for (potentially large-scale) shared-memory multiprocessors. Its architecture is based on the principle that, in order to maximize performance for applications with diverse requirements, a file system must support a wide variety of file structures, file system policies, and I/O interfaces. Files in HFS are implemented using simple building blocks composed in potentially complex ways. This approach yields great flexibility, allowing an application ...

3 [The Vesta parallel file system](#) 95%

Peter F. Corbett , Dror G. Feitelson

ACM Transactions on Computer Systems (TOCS) August 1996

Volume 14 Issue 3

The Vesta parallel file system is designed to provide parallel file access to application programs running on multicomputers with parallel I/O subsystems. Vesta uses a new abstraction of files: a file is not a sequence of bytes, but rather it can be partitioned into multiple disjoint sequences that are accessed in parallel. The partitioning—which can also be changed dynamically—reduces the need for synchronization and coordination during the access. Some control over the layout ...



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... the **inode** Those "pointers" are called hard links in **UNIX** ... directories to point to the same **inode** Very useful ... How far ahead in time should I **prefetch** a block ...

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... to a pseudo-device named "/dev/tip" through the **Unix** I/O ... hint, it adds it to the end of a **prefetch** queue. ... routines to resolve the file name to an **inode** or file ...

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... Default policy: allocate 1 **inode** per 2048 bytes ... The **Unix** utilities try to avoid this problem ... accessed sequentially, so can optimistically **prefetch** disk blocks ...

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... **UNIX** does this through the concept of "links". ... by having multiple directory entries point to same **inode** • Question: how to ... How much should one **prefetch**? ...

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... When a **UNIX** user type "ls -l directory" to browse a ... We **prefetch** the attributes and file handles in a ... An **Inode** information may be cached on multiple machines. ...

[chooyu.cs.uiuc.edu/~liuwei/papers/prefetch.ps](#) - [Similar pages](#)

[Citations: A trace-driven analysis of the Unix - Ousterhout, Costa ...](#)

... 1 In **Unix** jargon, the **inode** is the file descriptor ... A trace-driven analysis of the **unix** 4.2 bsd file ... server capacity wasted when **prefetch** decisions inevitably ...

[citeseer.nj.nec.com/ cs?q=dbnum%3D1%2CGID%3D19987%2CDID%3D0%2Cstart%3D50%2Ccluster%3Dnone%2Cqtype%3Dcontext](#) - 14k - [Cached](#) - [Similar pages](#)

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... cylinder group as the file's **inode** Whenever an ... Multics supported **prefetching** Feiertag as did **Unix** Ritchie Earlier ... better predict which blocks to **prefetch** Given ...

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... section presented an idealized algorithm for prefetch- ing in ... PGMS by taking the Digital-UNIX-based GMS ... of the IP address, de- vice number, **inode** number, and ...

www.cs.princeton.edu/courses/archive/fall03/cs518/papers/gms.pdf - [Similar pages](#)

[PS] [Why does file system prefetching work? Elizabeth Shriver ...](#)

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... from the same cylinder group as the file's **inode**. ... supported prefetching [Feiertag72], as did **Unix** [Ritchie78 ... predict which blocks to prefetch [Griffioen94, Le97 ...

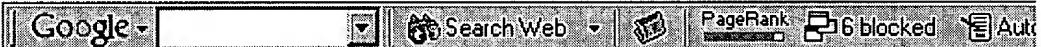
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